/ 2-oligo dimers / 2-oligo bulges / 2-oligo internals

Number of base runs
Number of hairpin loops
Number of dimers
Number of bulge loops
Number of internal loops

Structural Analysis Summary

/ palindromes

nse)	- M
tide(Se	AC 3
r DNA Oligonuclec	TAA
0-mer DNA	TCG
yt L) " a 20-me.	CTG
whiel (slmb primer cyt L)"	CAT
f "table1 (slr	CCT
lysis of "	CAA
Ana	U -

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/ 2-oligo dimers / 2-oligo bulges / 2-oligo internals

Structural Analysis Summary

/ palindromes

Number of base runs
Number of hairpin loops
Number of dimers
Number of bulge loops
Number of internal loops

Analysis of "table 2 (slmb primer cyt H)" a 20-mer DNA Oligonucleotide (Antisense)	18 II. OTH WOO
malysis of "t	Oligonuc
~ U)	

TT 3'	eters	25.0 degrees C	0.6 pMol	TOEM 0.00	7 bases	4 bases	2 C C C C C C C C C C C C C C C C C C C	ה ה ה ה ה ה ה ה ה ה ה ה ה ה ה ה ה ה ה		
ide Analysis	Analysis Parameters	70.8 degrees C Probe concentration	72.3 degrees C Formand	64.0 degrees C 3' End length	Run length	Palindrome length	"alipin loop stem length		= =	
nucleot	79	70.8 degrees C	72.3 degrees C	64.0 degrees C	C	54.8 ug/A260 60.0 %		-164.6 kCal/Mol	-419.9 eu	-5.1 kCal/Mol
Oligor	Tm thermodynamic	Filter Tm	AT+GC TH	Absorbance	Absorbance	Ferdent GC Delta G	Delta H	Delta 3	[3' End Delta G	

Analysis of "table 3 (slmb primer ITS2 F)" a 20-mer DNA Oligonucleotide (Sense) ECK L

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HU	
TTA	The Type of Dansage
TTC	0.4
ACC	
CHC	/sis
TGA	otide Analy
O MCI TGA CTG ACC TTC TTA CT 3	Oligonucleotide Analysis
N	

oridonnere	Uligonucleotide Analysis	Analysis Parameters	e rere
Molecular weight	0.8609	Do 1 + p C H C C C C C C C C C C C C C C C C C	
		Derea d'imparacine	ZD.0 degrees C
TIME CHIEF THOUGH TO THE	51.3 degrees C	51.3 degrees CHProbe concentration	
Filter Tm	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		TOWO
	C GBBTED C.C.	concentration	1000.0 mMol
	64.2 degrees C	64.2 degrees C  Formamide concentration	- a - c - c
AT+GC Tm	56.0 degrees Cl3' End 1000th	12 ESC 10 SECTION	
	) ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	בווס דבווסרוו	/ Dases
Absorbance	5.6 nMol/A260  Run length	Run length	2
Absorbance	34.0 114/8260	Dalindron longer	י השמבש
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Indian amorphism	S Dases
ביים מוני פר	40.04	Hairpin loop stem length	2000
Delta G	-26.5 kCal/Mol		מ מים
Delta H	-137.7 kCal/Mol		
Delta 3	-365.8 eu		
[3' End Delta G	-3.9 kCal/Mol		

Number	οĘ	base runs	/ palindromes	0 / 0
Number	of	hairpin loops	•	. 0
Number	of	dimers	/ 2-oligo dimers	- 0 / 0
Number	o.	bulge loops	o bulge	
Number	of	rnal i	-oligo inter	· ·
			*******	- `

TTS2-H) " a 24-mer DNA Oliconnelectide (Antisense)

	M
(acree tarry)	CTG
cable 4 ( simb primer 1152-H) a 24-mer DNA VIIgonucieotiue (Antisense,	TGA
DITO WITTO	ACT
7 7 - mer	CAT
n-7611 191	GGA
riad omrs )	TGC
Farorea	1 <i>T</i> 1
marysis or	ATA
₹	5

Oligonucleot	Oligonucleotide Analysis			Analysis Parameters	ameters
Molecular weight	7407.9		Delta	Delta G Temperature	25.0 degrees C
Tm thermodynamic	65.4	degrees C	Probe	65.4 degrees C Probe concentration	0.6 pMol
Filter Tm	57.8	degrees C	Salt	57.8 degrees C Salt concentration	1000.0 mMol
& GC Tm	72.2	degrees C	Forma	72.2 degrees C Formamide concentration	8 0.0
AT+GC Im	70.0	70.0 degrees C 3' End length	3' En	d length	7 bases
Absorbance	4.4	4.4 nMol/A260 Run length	Run 1	ength	4 bases
Absorbance	32.4	32.4 ug/A260	Palin	Palindrome length	8 bases
Percent GC	45.8 %	· ap	Hairp	Hairpin loop stem length	3 bases
Delta G	-35.5	-35.5 kCal/Mol			
Delta H	-169.5	-169.5 kCal/Mol			
Delta 3	-442.0 eu	ne			
3' End Delta G	-5.2	-5.2 kCal/Mol_			

Number	jo	base runs	\	palindromes	0 / 0
Number	of	hairpin loops			0
Number	of	dimers	\	2-oligo dimers	0 / 0
Number	of	bulge loops	\	2-oligo bulges	0 / 0
Number	of	internal loops	\	2-oligo internals	0 / 0

AAC Analysis of "table 5 ( slmb primer pro-L ) " a 24-mer DNA Oligonucleotide (Sense) AAG TCA ACC CAA CGT TCT CAG 5

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	lvsis Parameters
) ( ) ( ) ( ) ( ) ( ) ( )	Ana
	Oligonucleotide Analysis

Oligonucleotide Analysis	de Analysis	Analysis Parameters	meters
Molecular weight	7354.9	Delta G Temperature	25.0 25.0
The thermodynamic	,	מייי שליי שליי שליי שליי שליי שליי שליי	Co. degrees C
	b/.8 degrees	<pre>b/.b degrees C Probe concentration</pre>	0.6 pMol
TI JOST TH	60.2 degrees	60.2 degrees C  Salt concentration	1000
SC TH	72.2 degrees	72.2 degrees C Formamide concentration	TO: 00 C
AT+GC TH	70.0 degrees	70.0 degrees CH3' End length	P . C
Absorbance	20 x/ E = 2x = 6 P	ייים ויים ויים ויים ויים ויים ויים ויים	/ Dases
	4.3 nMOL/AZ6	4.3 nMol/AZ 60   Kun length	4 bases
Absorbance	31.4 ug/A260	Palindrome length	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Percent GC	45.8 %	Hairpin loon atem length	
Delta G	-36.5 kCal/Mol		ב ממתים
Delta H	-169.9 kCal/Mol		
Delta 3	-439.7 eu		
3' End Delta G	-4.9 kCal/Mol		

Summary	
Analysis	
Structural	

Number	oĘ	base runs	/ palindro	omes	0 / 0
Number	οĘ	hairpin loops	Ì		
Number	of	dimers	/ 2-oligo	dimers	0 / 0
Number	of	bulge loops		bulges	0 / 0
Number	of	rnal 1		ter	) O

Analysis of "table 6 ( slmb primer Dloop-H)" a 23-mer DNA Oligonucleotide(Antisense) CAC AAA CAT CAG ATC ATC ATA

Oligonucleotide Analysis Molecular weight

S

25.0 degrees bases bases bases bases 0.6 pMol 1000.0 mMol 4 B W 0.0 Analysis Parameters Hairpin loop stem length c|Formamide concentration Delta G Temperature concentration concentration nMol/A260 Run length ug/A260 Palindrome length degrees c|3' End length CProbe csalt -4.6 kCal/Mol -163.3 kCal/Mol degrees degrees -32.9 kCal/Mol degrees 9 66.4 62.0 4.3 30.0 53.6 61.2 7033.7 -429.7 Tm thermodynamic

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(1)

Structural Analysis Summary

3' End Delta G

Absorbance Absorbance Percent GC

Delta G Delta H Delta s

Filter Im AT+GC Im CC Th

0 000 00000 2-oligo dimers 2-oligo bulges 2-oligo internals / palindromes of internal loops hairpin loops bulge loops base runs dimers of Number of of Number Number Number Number

Analysis of "table 7 ( slmb primer ROD-1) " a 20-mon min	CCT GGT ACA CHE CALIGONUCLEO tide (Sense)	oligonucleotide Annilisi GIT CA 31
Analysis of "t	5' CCT	Oligonucle

U

Number of base runs
Number of hairpin loops
Number of dimers
Number of bulge loops
Number of bulge loops
Number of internal loops / 2-oligo bulges
O / 0

Structural Analysis Summary

/ palindromes

Number of base runs
Number of hairpin loops
Number of dimers
Number of bulge loops
Number of internal loops

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/ 2-oligo dimers / 2-oligo bulges / 2-oligo internals

T 3 P	Analysis Parameters	66.4 degrees C Probe concentration 25.0 degrees	certanion 100	0.0	,	length 4	Jength B	3 Dases		
nucleotide Analysis	6738.4	degrees C			5.2 nMol/A260	1/A260			[3] End Delta G	-7.9 kCal/Mol

U

m Analysis of "table 9 ( LRMB primer 16S-L )" a 21-mer DNA Oligonucleotide (Sense) CTC TIL ATG AGT CCA CAG CAC **1**0

Oligonucleotide Analysis

	Molecular weight		Analysis Parameters	meters
61.5 degrees C Probe concentration 53.9 degrees C Salt concentration 68.9 degrees C Formamide concentration 62.0 degrees C 3' End length 5.1 nMol/A260 Run length 47.6 4 Hairpin loop stem length -31.9 kCal/Mol -4.9 kCal/Mol	נ	III 7.12#0	Delta G Temperature	25.0 degrees C
Salt concentration 1000.0  C Formamide concentration 0.0  C 3' End length 7  Run length 4  Palindrome length 8  Hairpin loop stem length 3	U	61.5 degrees C	Probe concentration	0 . 6 pMc
Formamide concentration 0.0 3' End length 4 0 Run length 4 Palindrome length 8 Hairpin loop stem length 3		53.9 degrees C	Salt concentration	1000 C 000 C
Run length Palindrome length Hairpin loop stem length		68.9 degrees C	Formamide concentration	TOTAL 0:0001
O Run length Palindrome length Hairpin loop stem length 3		62.0 degrees C	3' End length	0.00
Palindrome length Hairpin loop stem length 3		5.1 nMo1/A260 F	Run length	ר ממת י
Hairpin loop stem length 3		33.0 ug/A260	Palindrome length	משנים מין
			dairnin loon atom longer	San BC D
-152.3 kCal/Mol -396.4 eu -4.9 kCal/Mol			יייים אסטל ארני ייים אליייי	J Dases
-396.4 eu -4.9 kCal/Mol		-152.3 kCal/Mol		
-4.9 kCal/Mol		-396.4 eu		
		-4.9 kCal/Mol		

Summary	
Analysis	
Structural	

Number	οĘ	base runs	/ palindro	omes	0 / 0	_
Number	of	hairpin loops				
Number	of	dimers	/ 2-oligo	dimers	0 / 0	
Number	οĘ	bulge loops	/ 2-oligo	bulges	0 / 0	
Number	οĘ	internal loops	/ 2-oligo	Н	0 / 0	_

Analysis of "table 10 ( LRWB primer 165-H )" a 18-mer DNA Oligonucleotide (Antisense) じなじ FUA TCG TAG TTC <u>1</u>

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) 111	Analvais
) ) !	nucleotide
)	01190

Uligonucieotide Analysis	de Analysis	Analysis Parameters	neters
Molecular weight	5594.7	Delta G Temperature	25.0 degrees C
Tm thermodynamic	51.2 degrees C	51.2 degrees C Probe concentration	
Filter Im	43.6 degrees C	43.6 degrees Calt concentration	10XII 0 0001
* GC Th	64.5 degrees C	64.5 degrees C Formamide concentration	# O O
AT+GC IM	54.0 degrees C 3' End length	3' End length	7 bases
Absorbance	5.7 nMol/A260 Run length	Run length	4 bases
Absorbance	31.8 ug/A260	Palindrome length	8 e
Percent GC		Hairbin loop stem length	S Dasses
Delta G	-25.3 kCal/Mol	4	
Delta H	-123.0 kCal/Mol		
Delta 3	-320.5 eu		
[3' End Delta G	-4.9 kCal/Mol_		

)	40	base runs ,	/ palindro	omes	0 / 0
Number o	ř	hairpin loops			0
Number o	ĭ	dimers ,	/ 2-oligo	dimers	0 / 0
Number o	ř	bulge loops	/ 2-oligo	bulges	0 / 0
Number o	ř	internal loops ,	/ 2-oligo	internals	0 / 0

/ 2-oligo dimers / 2-oligo bulges / 2-oligo internals

Number of base runs Number of hairpin loops Number of dimers Number of bulge loops Number of internal loops

Structural Analysis Summary

/ palindromes

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Analysis of "table 11 / IDWB primer 19ser 1" a 10.

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Analysis of table 11 ( man primer 125-b ) a 19-mer bus origination (sense	<u>ი</u>
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2	U
60	
C	A
10	U
517	AGA
2	
2	CHC
GH	H
	U
-	
	TCG
7	
3	
4	71
EGI	7
7	GCC
9	
3	U
-	H
7	TIC
77	
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Oligonucleotide Analysis	Analysis	Analysis Parameters	neters
Molecular weight	5779.8	Delta G Temperature	25.0 degrees C
Tm thermodynamic	62.1 degrees C	62.1 degrees C Probe concentration	0.6 pMol
Filter Im	54.5 degrees C	54.5 degrees C Salt concentration	1000.0 mMol
S GC TH	69.7 degrees C	69.7 degrees C Formamide concentration	8 0.0
AT+GC Tm	60.0 degrees C	60.0 degrees c 3' End length	7 bases
Absorbance	6.0 nMol/A260 Run length	Run length	4 bases
Absorbance	34.6 ug/A260	Palindrome length	8 bases
Percent GC	57.9%	Hairpin loop stem length	3 bases
Delta G	-31.8 kCal/Mol		•
Delta H	-146.6 kCal/Mol		
Delta S	-378.6 eu		
[3' End Delta G	-4.6 kCal/Mol		

/ 2-oligo dimers / 2-oligo bulges / 2-oligo internals

Number of base runs
Number of hairpin loops
Number of dimers
Number of bulge loops
Number of internal loops/

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/ palindromes

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nse,	<u>'</u>
f "table 12 ( LRMB primer 12S-H )" a 23-mer DNA Oligonucleotide (Antisense)	C TCC ATC ATC CCT CAC CTT AC 3
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LRMB	A
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"tal	F
s of	GCC
Analysis of "tab	0
Ana	-
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Analysis of "table 13 (DTMB primer 16S-H)" a 20-mer DNA Oligonucleotide (Antisense)

5 ' CTC CGT CCG TCT CGC 3'

ronucleotide Analysis	Ω
Oligonucleotic	ar weight
	olecule

DATONIO OTTO	Oligonacieotide Analysis	CTCCTTO TOTAL		ſ
Molecular weight	6052.0	Delta G Temperature	25.0 degrees C	(1
The thermodynamic	71.7 degrees C	71.7 degrees C Probe concentration	0.6 pMol	
Filter Tm	64.1 degrees C	64.1 degrees C Salt concentration	1000.0 mMol	
S GC TH	76.4 degrees C	76.4 degrees C Formamide concentration	\$ 0.0	
AT+GC TH	68.0 degrees C 3' End length	3' End length	7 bases	
Absorbance	6.1 nMol/A260 Run length	Run length	4 bases	
Absorbance	37.2 ug/A260	Palindrome length	8 bases	
Percent GC	70.0 %	Hairpin loop stem length	3 bases	
Delta G	-37.1 kCal/Mol			_
Delta H	-157.8 kcal/Mol			
Delta 3	-398.9 eu			_
3' End Delta G	-7.9 kCal/Mol_			7

Number	οĘ	base runs	ă \	palindromes	omes	\ \ 0	_
Number	of	hairpin loops				0	
Number	of	dimers	7	-oligo	dimers	) \ 0	_
Number	of	bulge loops	/ 2	2-oligo	bulges	0 / 0	_
Number	of	internal loops	/ 2.	-oligo	internals	\ \ 0	0 /

/ 2-oligo dimers / 2-oligo bulges / 2-oligo internals

Number of base runs
Number of hairpin loops
Number of dimers
Number of bulge loops
Number of internal loops

00000

/ palindromes

		Analysis Parameters	ers
Sissing Analysis	is		25.0 degrees C
V 33E3		Delta G Temperature	
Molecular weight	· · · · · · · · · · · · · · · · · · ·		0.0 PMOT
	7.9 degrees		1000.0 mMol
	0.3 degrees C		8 0.0
Filter Tm	9 5 degrees	69 5 degrees C Formamide concentration	40447
at Co H		C. C. Lower C. 3' End length	77 (2) (3) (4) (4) (4) (4)
	A. O degrees of Pun length	Bun length	th Dayers
	4.9 nMOI/AZ	_	B Dases
	33.3 ug/A260	=	э разез
Absorbance	1 A V	Hairpin loop stem length	
	[OM/ [a2/2 o 7/c	_	
	ריאיי רייטין היי		
	-1/1.5 KCA1/120-		
4	-444.2 eu		
Delta G	-4.9 KCBL/INDI		
		Summary	
	Scrncintar		
	,	O / O	

analysis of "table 15 / DTMB primer 12S-H )" a 22-mer DNA Oligonucleotide (Antisense)

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	TC CTT G	Analysis Parameters
S	TIC	Analysis
17 17 17	CTA	
/ 17 071	GCT	
DIED PLIME IZS II A ZZ MCZ SIII CZ-BCIII	CGG CTT GCT CTA TTC CTT G 3'	analvsis
CT ATOP	CGG	meleotide Analysis
Analysis of ta	CAT	1000
¥	<b>1</b> 0	

Oligonucleotide	otide Analysis		Analysis Parameters	sters	٢
1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	A FC73		Delta G Temperature	25.0 degrees C	<u>''</u>
Wolecuter Weight				(0)(1)	
the the tanodynamic	68.8 d	eqrees C	68.8 degrees C∥Probe concentration	O. P. PROT	
	ר כ וא	מממענים מ	61 2 degrees C salt concentration	1000.0 mMol	
Filter Th	1	)		6	_
# GC Th	71.3 d	еджеев С	71.3 degrees C Formamide concentration	e .	_
	66.0 4	egrees C	66.0 degrees C 3' End length	7 bases	
AT+GC III	)	1 1 1 1 1		pased 5	_
Absorbance	я. В	Mo1/A260	5.3 nMol/A260 Run length	7	_
	35.5, 1	35.5, ud/A260	Palindrome length	B Dases	_
ADBOLDSLICE	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			20000	
Percent GC	50.0		Hairpin loop stem tength		_
Delta G	-37.5 k	-37.5 kCal/Mol			_
Delta H	-172.0 kCal/Mol	Cal/Mol			
Delta	-444.3 eu	ם			
3' End Delta G	4 0.7-	-7.0 kCal/Mol_			7

Number	of	base runs	/ palindrom	omes	o \ o
Number	of	hairpin loops			
Number	oţ	dimers	-oligo	dimers	0 0
Number	of	bulge loops	/ 2-oligo h	bulges	0 7
Number	oę	internal loops	/ 2-oligo :	internals	0 / 0

Analysis of "table 16 ( DTMB primer 12S-L )" a 19-mer DNA Oligonucleotide (Sense) TCA ATC GGC GGC GTA TCT 5

Analysis	
cleotide	
Oligonue	
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		ပြ			_	_	_		_	_	_		
		25.0 degrees C	pMol	mMo1	ge.	7 bases	4		. מט מי	Dases			
	erers	25.0	0.6 pMol	1000.0 mMol	8 0.0	7	4	· α	י כ	n			
1,010	MINITARY FARAMETERS	0	r.	u	ation				Jenath				
, e 7 &	T DING	Deita G Temperature	58.2 degrees carried concentration	69.7 degrees Clearing Concentration	60 0 degrees choimamide concentration	ength	Jth	Palindrome length	Hairpin loop stem length	•			
	1000	Delta	Frone Co	Salt Co	T C T WALL	S End	_	_	Hairpin				
		Jeanne	de dramatica de la compansion de la comp	degrees	apprage A	5 7 mm / more length	2. Imaci, Actou Kun length	33.4 ug/A260	a <b>p</b>	-33.9 kCal/Mol	-152.5 kcal/Mol	en	-3.5 kCal/Mol_
Analysis	5859.8	65.8	58.2	69.7	0.09	7 2		υ. 1	57.9 g	-33.9	-152.5	-391.2 eu	-3.5
Caryonucleotide Analysis													
1901	MALGULAR Weight	Tm thermodynamic	Ą			Ce	80	ပ္ပ					erta G
No.	BTDSSTOR	The therm	Filter Im	년 20 후	AT+GC Tm	Absorbance	Absorbance	Percent GC	Delta	7		3 1 10 10 10	d bila

A Tellilling C+	ndromes	•	1 1 7	o diner	igo internala 0 / 0
0 + 0 / + 1	base runs / palin	hairpin loops	dimers / 2-01igo	bulge loops / 2-olig	rnal loops /
	Number of	Number of	Number of	Number of	Number of

of "table 17 ( TCMB primer 16S-H )" a 21-mor nam 01:	der DNA Oligonucleotide (Antisense)	THE ACG GCA CGG GCG 31	
Analysis of "table 17 ( TCMB primer 169	5 GGC CAT TOE	LOT TEST SOL	Oligonucleotide Analysis

	meters	25.0 degrees C	0.6 pMol	1000.0 mMol	8 0.0	7 bases	4 bases	8 bases	3 bases				
	Delta C m.	80.4 degrees C Probe Concentrations	72.8 degrees Cast concentration	78.6 degrees C Formamide Concentration	3' End length	Run length	Palindrome length	Hairbin loop stom	taguar mengan				
Oligonucleotide Analysis	6568.3	80.4 degrees C	72.8 degrees C	78.6 degrees C	72.0 degrees c 3' End length	5.1 nMol/A260 Run length	/A260			-186.4 kcal/Mol	-468.6 eu	-12.8 kCal/Mol	
Moleculer	The thermodynamic	Filtor Tm	- GC 73	AT+GC Tm	Absorbance	Absorbance	Percent GC	Delta G	Delta H	Delta 3	3' End Dalta C		

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Number of base runs / palindromes Number of hairpin loops / 2-oligo dimers Number of bulge loops / 2-oligo bulges Number of internal loops / 2-oligo internals

Analysis of "table 18 ( TCMB primer 16S-L )" a 22-mer DNA Oligonucleotide (Sense)

## <u>-</u> 4 GTC TAT AAC CIC GIC CTG AAA <u>.</u>

Oliaonucle	Oligonucleotide Analysis	Analysis Parameters	neters
Molecular Weight	6758.5	Delta G Temperature	25.0 degrees C
The thermodynamic	60.7 degrees C	60.7 degrees C Probe concentration	0.6 pMol
Filter Im	53.1 degrees C	53.1 degrees C Salt concentration	1000.0 mMol
SC TH	67.6 degreeв С	67.6 degrees C Formamide concentration	ø . 0 · 0
AT+GC TE	62.0 degrees C	62.0 degrees c∥3' End length	7 bases
Absorbance	4.7 nMol/A260 Run length	Run length	4 bases
Absorbance	31.7 ug/A260	Palindrome length	8 bases
Percent GC	40.03	Hairpin loop stem length	3 52363
Delta G	-31.7 kCal/Mol		
Delta H	-153.3 kCal/Mol		
Delta S	-400.5 eu		
3' End Delta G	-4.1 kCal/Mol_		

Summary	
Analysis	
Structural	

Number	of	base runs	/ palindromes 0	0
Number	of	hairpin loops	0	
Number	οĘ	dimers	/ 2-oligo dimers 0	0
Number	of	bulge loops	/ 2-oligo bulges 0	0 /
Number	of	internal loops	/ 2-oligo internals 0	0 /

Structural Analysis Summary

/ palindromes

000

2-oligo dimers 2-oligo bulges 2-oligo internals

Number of base runs
Number of hairpin loops
Number of dimers
Number of bulge loops
Number of internal loops

00000

m Analysis of "table 19 ( TCMB primer 12S-H )" a 22-mer DNA Oligonucleotide (Antisense) HUUU THC CGA CCA CAG ATT SCG **N** 

Olfgonucleof	Olimonucleofide Analysis	Analysis Parameters	eters
Molecular veight	1	Delta G Temperature	25.0 degrees C
	74.6 degrees C	74.6 degrees C Probe concentration	0.6 pMol
Filtor Im	67.0 degrees C	67.0 degrees C Salt concentration	1000.0 mMol
	75.0 degrees C	75.0 degrees C Formamide concentration	8 0.0
AT+GC TH	70.0 degrees C	70.0 degrees C 3' End length	7 bases
Absorbance	5.1 nMol/A260 Run length	Run length	4 bases
Absorbance	34.2 ug/A260	Palindrome length	8 55868
Percent GC	59.1 %	Hairpin loop stem length	3 разез
Delta G	-40.8 kCal/Mol		
Delta H	-176.0 kcal/Mol		
Delta 3	-447.5 eu		
3' End Delta G	-7.9 kCal/Mol		

/ 2-oligo dimers / 2-oligo bulges / 2-oligo internals

Number of base runs
Number of hairpin loops
Number of dimers
Number of bulge loops
Number of internal loops

/ palindromes

00000

of "table 20 ( TCMB primer 12S-L )" a 21-mer DNA Oligonucleotide (Sense)	ACT ADA GCC CAG ATA ACT ACA 3	Analysis Parameters
TCMB primer 128-	77 L	0

		Allary	000000	1
api 100 ( a	Analvsis		25.0 degrees	7
Ol 1 gonder and 1		Thelts G Temperature	(ONS)	_
+45,000	6432.3	TO LANGUAGE TO	0.0	
Molecular Weight	59.2 degrees C	59.2 degrees C Probe Concentration	1000.0 mMol	
The thermodynamic		s degree C Salt concentration	of C	
Filter Tm		of a series correction	מייי ר	
	66.9 degree	bb. y degrees and length	4	
1	60.0 degrees		t Dana	
AT+GC Tm	4 8 nMol/A260 Run length	Run length	8 bases	
Absorbance	30 6 mg/A260	_	3 разез	
Absorbance			•	-
Descent GC	5. 2. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.			
	-31.7 kCal/MOL			
Delta G	-159.4 kCal/Mol			
Delta H	-421.0 eu			
Delta S	_13 9 kCal/Mol_			
3' End Delta G				
•	A Levinoting	Crancing Analysis Summary	ſ	
	SLIUCIAIA	0 / 0		

Analysis of "table 21 (PCMB primer 16S-H )" a 22-mer DNA Oligonucleotide (Antisense)

## m TGC ATG ATG ATG CTG GTT CGT **U**

Oligonucleotide	eotide Analysis			Analysis Parameters	neters	
Molecular weight	6867.5		Delta	Delta G Temperature	25.0	25.0 degrees
Tm thermodynamic	64.7	degrees C	Probe	64.7 degrees C Probe concentration	9.0	0.6 pMol
Filter Tm	57.1	degrees C	Salt	57.1 degrees C Salt concentration	1000.0 mMol	mMo1
F GC TH	69.5	degrees C	Forman	69.5 degrees C Formamide concentration	0.0	æ
AT+GC TH	64.0	64.0 degrees C 3' End length	3' End	llength	7	7 bases
Absorbance	4.9	4.9 nMol/A260 Run length	Run le	ngth	4	4 bases
Absorbance	33.4	33.4 ug/A260	Palind	Palindrome length	80	bases
Percent GC	45.5 %	dР	Hairpi	Hairpin loop stem length	e	bases
Delta G	-33.0	-33.0 kCal/Mol				
Delta H	-150.2	-150.2 kcal/Mol				
Delta S	-385.9 eu	9.0				
3' End Delta G	-6.3	-6.3 kCal/Mol_				

Number	οĘ	base runs	/ palindro	отез	n / o
Number	of	hairpin loops			0
Number	οĘ	dimers	/ 2-oligo	dimers	0 /
Number	of	bulge loops	/ 2-oligo	bulges	0 / 0
Number	of	internal loops	/ 2-oligo	internals	0 / 0

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' a 19-mer DNA Olig	TAG
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2 ( PCMB	CCT
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Analysis o	IJ -

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ters	75.0 45.	Condediees C	0.6 pMol	10001	TOWN: O TOOT	æ 0.0	7 5000	י טמשפט	4 bases		d Dases	7	50000					
Analysis Parameters	Delta G Temperature	3 ( 3 ) ( 1 ) ( 1 ) ( 1 )	43.3 degrees C Probe concentration	41.9 degrees C Salt concentration	61.1 degrees C Bornand L. 1911	Timamitde concentration	End length		יי דפוולרוו	Palindrome length	ייייי איייי איייי	Hairpin loop stem length						
ide Analysis	5799.8	1 4 0 K	TALS CHORLEGES CHER	41.9 degrees C∥Sa	61.1 degrees 7 5		52.0 degrees C 3' End length	5.8 nMol/A260 Bus longth	_	33.6 ug/A260   Pa	_	EH D.O.	-26.1 kCal/Mol	-138.8 kCal/Mol		-371.5 eu	-3.1 kCal/Mol	
Uligonucleotide Analysis	MOLGCULAR Weight	The thermodynamic	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	# TY COT THE	SC TE	AT+CO The		Absorbance	Phanthan	SOLD SOLD SOLD SOLD SOLD SOLD SOLD SOLD	Percent GC		Delta G	Delta H	0 1+1-0		[3' End Delta G	

Summary	omes		dimers	buldes		
Analysis	/ palindromes	•	/ 2-oligo	/ 2-oligo	/ 2-oligo	
Structural Analysis Summary	of base runs	hairpin loops	dimers	bulge loops	internal loops	
	of	of	of	of	9	
	Number	Number	Number	Number	Number	

0

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/ 2-oligo dimers / 2-oligo bulges / 2-oligo internals

Number of base runs Number of hairpin loops Number of dimers Number of bulge loops Number of internal loops

Structural Analysis Summary

/ palindromes

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 $\omega$ Analysis of "table 23 ( PCMB primer 12S-H )" a 22-mer DNA Oligonucleotide (Antisense) H TAC CCC ATG ACT CTT GAA GCT **1**0

meters	25.0 degrees (0.6 pMol 10000 mMol 0.0 % 7 bases 4 bases 8 bases 3 bases
Analysis Parameters	Delta G Temperature 60.3 degrees C Probe concentration 52.7 degrees C Salt concentration 69.5 degrees C Formamide concentration 64.0 degrees C Formamide concentration 5.0 nMol/A260 Palindrome length 132.7 kCal/Mol 64.7 kCal/Mol 135.2 eu -6.6 kCal/Mol
Oligonucleotide Analysis	degrees C degrees C degrees C degrees C nwol/A260 ug/A260 % kCal/Mol kCal/Mol kCal/Mol
a Country of	Molecular weight The thermodynamic Filter The % GC The ArtGC The Absorbance Absorbance Percent GC Delta H Delta 9 3' End Delta G

2-oligo dimers 2-oligo bulges 2-oligo internals

Number of base runs Number of hairpin loops Number of dimers Number of bulge loops Number of internal loops

Structural Analysis Summary

/ palindromes

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**m** Analysis of "table 24 ( PCMB primer 12S-L )" a 20-mer DNA Oligonucleotide (Sense) DH CTA GAA ひひり GAC ATT ひひひ **N** 

Analysis Parameters

Oligonucleotide Analysis	de Analysis			Analysis rarameters	ופרפז מ
Molecular weight	6182.1		Delta	Delta G Temperature	25.0 degrees C
Tm thermodynamic	68.1	degrees C	Probe	68.1 degrees C Probe concentration	0.6 pMol
Filter Im	60.5	degrees C	Salt	60.5 degrees C Salt concentration	1000.0 mMol
& GC TH	70.3	degrees C	Forman	70.3 degrees C Formamide concentration	s 0.0
AT+GC Th	62.0	62.0 degrees C 3' End length	3' Enc	d length	7 bases
Absorbance	5.3	5.3 nMol/A260 Run length	Run 1	ength	4 bases
Absorbance	32.5	32.5 ug/A260	Paline	Palindrome length	8 разез
Percent GC	55.0 %	æ	_	Hairpin loop stem length	3 Базез
Delta G	-35.6	-35.6 kCal/Mol			
Delta H	-159.4	-159.4 kCal/Mol			
Delta 3	-408.5 eu	ne			
3' End Delta G	1.4.1	-4.1 kCal/Mol_			

2-oligo dimers 2-oligo bulges 2-oligo internals

Structural Analysis Summary

/ palindromes

Number of base runs
Number of hairpin loops
Number of dimers
Number of bulge loops
Number of internal loops

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Analysis of "table 25 ( SIMB primer 16S-H )" a 18-mer DNA Oligonucleotide (Antisense) TGG UHU ひむひ TAA GCA TAC 5

Ol igonucieo	Oligonucleotide Analysis	Analysis Parameters	meters
Molecular weight	5579.7	Delta G Temperature	25 0 degrees C
Tm thermodynamic	61.4 degrees C	61.4 degrees C Probe concentration	20.0 CONT 9.00
Filter Im	53.8 degrees C	53.8 degrees C Salt concentration	1000 0 0001
& GC Tm	66.8 degrees C	66.8 degrees C Formamide concentration	T)
AT+GC Im	56.0 degrees C 3' End length	3' End length	3 C C
Absorbance	5.9 nMol/A260 Run length	Run length	
Absorbance	32.8 ug/A260	Palindrome length	
Percent GC		Hairbin loop stem length	
Delta G	1/Mol	וויקוואד ווייסים לייסיד ווייקיואיי	ר ממת
Delta H	-143.5 kCal/Mol		
Delta S	-370.2 eu		
[3' End Delta G	-7.9 kCal/Mol		

Analysis of "table 26 ( SLMB primer 16S-L )" a 22-mer DNA Oligonucleotide (Sense)

m ATC TAC AAC CIC CAC CTA CTA Ŋ

Oligonucleotide Analysis	Analysis			Analysis Parameters	meters	
Molecular weight	6638.4		Delta	Delta G Temperature	25.0	25.0 degrees C
Tm thermodynamic	52.4	degrees C	Probe	52.4 degrees C Probe concentration	0.6 pMol	pMol
Filter Tm	44.8	degrees C	Salt	44.8 degrees C Salt concentration	1000.0 mMol	mMo.1
4 GC Tm	9. 79	degrees C	Forman	67.6 degrees C Formamide concentration	9 0.0	æ
AT+GC II	62.0	62.0 degrees C 3' End length	3' Enc	1 length	7	bases
Absorbance	6.4	4.9 nMol/A260 Run length	Run 16	ngth	4	bases
Absorbance	32.8	32.8 ug/A260	Palinc	Palindrome length	80	bases
Percent GC	\$ 6.0 <b>3</b>	æ	Hairpi	Hairpin loop stem length	e	bases
Delta G	-27.6	-27.6 kCal/Mol				
Delta H	-146.8	-146.8 kCal/Mol		-		
Delta 3	-392.2 eu	eu				
3' End Delta G	-3.8	-3.8 kCal/Mol_				

Number of	base runs	/ palindromes	0 / 0
Number of	hairpin loops		0
Number of	dimers	/ 2-oligo dimers	0 / 0
Number of	bulge loops	/ 2-oligo bulges	0 / 0
Number of	internal loops	/ 2-oligo internals	0 / 0

Analysis of "table 27 ( SLMB primer 12S-H )" a 19-mer DNA Oligonucleotide (Antisense) (1 OHU TAA TGC CAC ACT CCC 1**0** 

า )		SJATA	25.0 degrees C	0.6 pMol	1000 0 mm	7)	3 C	2 C C C C C C C C C C C C C C C C C C C		מ מיים מיים	o Dases			
))))	Analysis of solutions	Delta Carameters	Date o remperature	So a domination	Sold degrees C Salt concentration	93., degrees C Formamide concentration	3' End length	Run length	Palindrome length	Hairpin loop stem length				
	Oligonucleotide Analysis	5708.8	58.4 2627562	20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CO 2 4	Co. degrees C	ou.0 degrees C 3' End length	0	/A260			-138.5 kCal/Mol	-359.0 eu	LAY/ Land A R.
	Oligonuc	Subtem Merduc	Im thermodynamic	Filter Im	GC Th	AT+GC TH	Absorbance	Absorbance	Percent GC	Delta G	Delta H	: ::	,	end Delta G

Structural Analysis Summary

Number of base runs / palindromes 0 / 0

Number of hairpin loops / 2-oligo dimers 0 / 0

Number of bulge loops / 2-oligo bulges 0 / 0

Number of internal loops / 2-oligo internals 0 / 0

m Analysis of "table 28 ( SLMB primer 12S-L )" a 21-mer DNA Oligonucleotide (Sense) CAA TCA TAA CTA GGC 5

Molecular weight for the intermedynamic for the intermediate for th	この一氏しせ		meters	25.0 degrees	0.6 pMol	1000.0 mMol	8 0.0	7 bases	4 bases	8 bases	3 bases				
Molina Mo	- [	nucleotide Analysis	6445.2	58.5 degrees C  Probe Concent			•	Absorbance 5.1 nMol/A260 Run length		42.9 %	-30.8 kcal/Mol	Delta s -153.4 kCal/Mol	7-	)	

		/ 0	0	\ 0	\ 0	
Structural Analysis Summaric	/ 223 i	Paringromes		n	/ 2-cilgo bulges	1 2-011 CO 1 2 4 4 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Structural	base runs	hairpin loops		bulge loons	na n	
	of	οĘ	οĘ	οĘ	οf	
	Number	Number	Number	Number	Number	